

What is claimed is:

1. A device for electrically connecting a connecting line to an electrode, comprising:

a housing;

a first contact member mounted in said housing for connection to a contact pin of an electrode, said contact member having first energy storage element for spring biasing said contact member to engage the contact pin; and

a first actuating element mounted in said housing to deflect said energy storing element and move said contact member to an open position to receive the contact pin.

2. A device according to claim 1 wherein the electrode is a medical skin electrode.

3. A device according to claim 1 wherein said actuating element is connected eccentrically on a rotatably mounted drive element.

4. A device according to claim 3 wherein said drive element comprises an eccentrically extending contact surface, such that when said drive element is rotated said contact member is moved to said open position.

5. A device according to claim 4 wherein said drive element and said actuating element are eccentrically connected to one another by a pin on one of said drive element and said actuating element being received in a slot in the other of said drive element and said actuating element.

6. A device according to claim 3

said drive element and said actuating element are eccentrically connected to one another by a pin on one of said drive element and said actuating element being received in a slot in the other of said drive element and said actuating element.

7. A device according to claim 3 wherein

said drive element and said actuating element have interacting means for limiting displacement of said actuating element.

8. A device according to claim 1 wherein

a second contact member is mounted in said housing for connection to the contact pin and has a second energy storing element for spring biasing said second contact member to engage the contact pin; and

a second actuating element is mounted in said housing to deflect said second energy storing element and move said second contact member to an open position to receive the contact pin.

9. A device according to claim 8 wherein

said first and second actuating elements are eccentrically connected on a common rotatably mounted drive element.

10. A device according to claim 1 wherein

said housing a top with a rounded shape.

11. A device according to claim 1 wherein

said housing comprises a surface facing the electrode to be engaged, said surface having an elastoplastic wall having a hardness less than hardnesses of other walls of said housing.

12. A device according to claim 11 wherein said elastoplastic wall is made from a thermoplastic elastomer.

13. A device for electrically connecting a line to an electrode, comprising

a housing having a bore extending along a longitudinal axis of the housing and having a first lateral opening extending substantially perpendicular to said longitudinal axis and being connected therewith;

a driving element rotatable mounted in said bore and having a cam at an inner end thereof and eccentric to said longitudinal axis;

a contact member engaged by said cam, mounted in said housing and extending across a portion of said bore substantially perpendicular to said longitudinal axis, said contact member being spring biased toward a closed position in a direction of said longitudinal axis and being moveable to an open position away from said longitudinal axis by rotation of said cam; and

a first actuating element movable translationally in directions substantially perpendicular to said longitudinal axis in said first lateral opening and eccentrically coupled to said driving element to rotate said driving element as said first actuating element moves toward and away from said longitudinal axis.

14. A device according to claim 13 wherein the electrode is a medical skin electrode.

15. A device according to claim 13 wherein said drive element and said actuating element are eccentrically connected to one another by a pin on one of said drive element and said actuating element being received in a slot in the other of said drive element and said actuating element.

16. A device according to claim 13 wherein said drive element and said actuating element have interacting means for limiting displacement of said actuating element.

17. A device according to claim 13 wherein a second contact member engaged by said cam, is mounted in said housing, extends across at portion of said bore substantially perpendicular to said longitudinal axis, is spring biased toward a closed position in a direction of the longitudinal axis, and is movable to an open position away from said longitudinal axis by rotation of said cam; and

a second actuating element is mounted a second lateral opening in said housing, is movable translationally and substantially perpendicular to said longitudinal axis and is eccentrically coupled to said driving element.

18. A device according to claim 13 wherein said housing a top with a rounded shape.

19. A device according to claim 13 wherein said housing comprises a surface facing the electrode to be engaged, said surface having an elastoplastic wall having a hardness less than hardnesses of other walls of said housing.

20. A device according to claim 19 wherein said elastoplastic wall is made from a thermoplastic elastomer.